

PATENT

Our Docket: P-UC 5042

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Selsted et al.

U.S. National Stage Serial No. 10/009,317

U.S. National Stage entry date: November 9, 2001

U.S. Applicants/Inventors: Selsted et al.

International Patent Application No.: PCT/US00/12842

International Filing Date: May 10, 2000

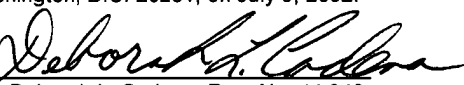
Priority date: May 10, 1999

Entitled: ANTIMICROBIAL THETA DEFENSINS AND METHODS OF USING SAME

Commissioner for Patents
Washington, D.C. 20231

I hereby certify that this correspondence is
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By


Deborah L. Cadena, Reg. No. 44,048

July 9, 2002

Date of Signature

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449, and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and that their consideration be made of written record in the application file.

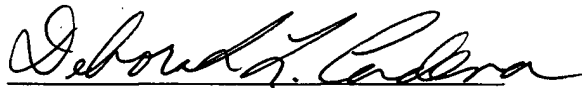
No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any

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fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-0370.

Respectfully submitted,

Date: July 9, 2002



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Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-UC 5042	SERIAL NO.: 10/009,317
	APPLICANT: Selsted et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE: November 9, 2001	GROUP: Not Yet Known

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		4,543,252	9/24/85	Lehrer and Selsted	514	12	11/19/82
		4,659,692	4/21/87	Lehrer and Selsted	514	12	5/11/84
		4,705,777	11/10/87	Lehrer et al.	514	12	6/28/85
		5,242,902	9/7/93	Murphy et al.	514	012	9/6/89
		5,324,716	6/28/94	Selsted et al.	514	14	6/14/91
		5,459,235	10/17/95	Selsted et al.	530	300	3/19/93
		5,422,424	6/6/95	Selsted et al.	530	324	8/14/92
		5,547,939	08/20/96	Selsted	514	14	2/16/94
		5,731,149	3/24/98	Selsted and Ouellette	435	006	6/7/95
		5,804,558	9/8/98	Lehrer et al.	514	13	6/7/95
		5,821,224	10/13/98	Selsted and Cullor	514	012	12/13/94
		5,840,498	11/24/98	Selsted and Ouellette	435	007.1	6/7/95
		5,844,072	12/1/98	Selsted and Ouellette	530	300	11/18/94

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
		WO 96/16075	30/05/96	PCT	C07H	21/04	
		WO 97/08199	06/03/97	PCT	C07K	14/47	
		WO 99/13080	18/03/99	PCT	C12N	15/12	
		WO 99/11663	11/03/99	PCT	C07K	14/47	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	Ahmad et al., "Liposomal entrapment of the neutrophil-derived peptide indolicidin endows it with <i>in vivo</i> antifungal activity," <u>Biochem. Biophys. Acta.</u> , 1237:109-114 (1995).
	Bals et al., "Mouse β -Defensin 1 Is a Salt-Sensitive Antimicrobial Peptide Present in Epithelia of the Lung and Urogenital Tract," <u>Infect. Immun.</u> , 66:1225-1232 (1998).
	Blond et al., "The cyclic structure of microcin J25, a 21-residue peptide antibiotic from <i>Escherichia coli</i> ," <u>Eur. J. Biochem.</u> , 259:747-755 (1999).
	Derua et al., "Analysis of the Disulfide Linkage Pattern in Circulin A and B, HIV-Inhibitory Macrocyclic Peptides," <u>Biochem. Biophys. Res. Commun.</u> , 228:632-638 (1996).

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	Galvez et al., "Purification and Amino Acid Composition of Peptide Antibiotic AS-48 Produced by <i>Streptococcus (Enterococcus) faecalis</i> subsp. <i>liquefaciens</i> S-48," <u>Antimicrob. Agents Chemother.</u> , 33:437-441 (1989).
	Goldman et al., "Human β -Defensin-1 Is a Salt-Sensitive Antibiotic in Lung That Is Inactivated in Cystic Fibrosis," <u>Cell</u> , 88:553-560 (1997).
	Gustafson et al., "Circulins A and B: Novel HIV-Inhibitory Macrocyclic Peptides from the Tropical Tree <i>Chassalia parvifolia</i> ," <u>J. Amer. Chem. Soc.</u> , 116:9337-9338 (1994).
	L�hrer and Ganz, "Antimicrobial peptides in mammalian and insect host defence," <u>Current Opinion Immunol.</u> :23-27 (1999).
	Lehrer et al., "Defensins: Endogenous Antibiotic Peptides of Animal Cells," <u>Cell</u> , 64:229-230 (1991).
	Smith et al., "Cystic Fibrosis Airway Epithelia Fail to Kill Bacteria Because of Abnormal Airway Surface Fluid," <u>Cell</u> , 85:229-236 (1996).
	Tam et al., "Marked increase in membranolytic selectivity of novel, cyclic tachyplesins constrained with an antiparallel two- β strand cystine knot framework," <u>Biochem. Biophys. Res. Comm.</u> 267:783-790 (2000).
	Tang et al., "A cyclic antimicrobial peptide produced in primate leukocytes by the ligation of two truncated α -defensins," <u>Science</u> 286:498-502 (1999).
	Tang and Selsted, "Characterization of the Disulfide Motif in BNBD-12, and Antimicrobial β -Defensin Peptide from Bovine Neutrophils," <u>J. Biol. Chem.</u> , 268:6649-6653 (1993).
	Valore et al., "Human β -Defensin-1: An Antimicrobial Peptide of Urogenital Tissues," <u>J. Clin. Invest.</u> , 101:1633-1642 (1998).

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		Wade et al., "All-D amino acid-containing channel-forming antibiotic peptides," <u>Proc. Natl. Acad. Sci. USA</u> , 87:4761-4765 (1990).
		Wu et al., "Protein trans-splicing by a split intein encoded in a split DnaE gene of <i>Synechocystis</i> sp. PCC6803," <u>Proc. Natl. Acad. Sci. USA</u> , 95:9226-9231 (1998).
		Zanetti et al., "Cathelicidins: a novel protein family with a common proregion and a variable C-terminal antimicrobial domain," <u>FEBS Lett.</u> , 347:1-5 (1995).

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